

WHAT IS CLAIMED IS:

1. An elastically stretchable composite sheet comprising an elastic sheet having a stretchability in two directions orthogonal to each other and a sheet-like fibrous assembly having an extensibility in said two direction bonded to at least one surface of said elastic sheet, wherein:

said fibrous assembly has a inelastic extensibility, said elastic sheet and said fibrous assembly are bonded together at bond regions arranged intermittently in said two directions and component fibers constituting said fibrous assembly are long fibers continuously extending and describing curves between each pair of adjacent bond regions in which said long fiber is bonded to said elastic sheet.

2. The composite sheet according to Claim 1, wherein said component fibers are neither sealed nor bonded with one another in a region extending between each pair of adjacent said bond regions.

3. The composite sheet according to Claim 1, wherein said component fibers are independent one from another in said region extending between each pair of adjacent said bond regions.

4. The composite sheet according to Claim 1, wherein said component fibers describe loops in said region extending between each pair of adjacent said bond regions.

5. The composite sheet according to Claim 1, wherein said component fibers are in the form of stretched yarns made of polypropylene or polyester.

6. The composite sheet according to Claim 1, wherein each of said component fibers has a diameter of 0.1 - 50, μm .

7. The composite sheet according to Claim 1, wherein said component fibers are continuous fibers.

8. The composite sheet according to Claim 1, wherein said fibrous assembly has a basis weight of 2 - 100 g/m².

9. The composite sheet according to Claim 1, wherein said elastic sheet is made of elastically stretchable film or elastically stretchable continuous fibers.

10. The composite sheet according to Claim 9, wherein said elastically stretchable film is moisture-permeable.

11. The composite sheet according to Claim 9, wherein said elastically stretchable film presents a moisture-permeability of at least 1000 g/m²/24 hrs. as measured according to the prescription of JIS Z 0208 and a water pressure resistance of at least 1 m as measured according to the prescription of JIS L 1092.

12. The composite sheet according to Claim 9, wherein said elastically stretchable film is made of block copolymerized polyester comprising hard and soft ingredients and said soft ingredient is polyether or copolymer of polyether.

13. The composite sheet according to Claim 9, wherein said elastically stretchable continuous fibers are made of block copolymerized polyester comprising hard and soft ingredients and said soft ingredient is polyether or copolymer of polyether.

14. The composite sheet according to Claim 1, wherein said composite sheet is elastically stretchable at least by 20 % in said two direction.